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NEWS 3 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 4 OCT 03 MATHDI removed from STN
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to core patent offices
NEWS 6 OCT 13 New CAS Information Use Policies Effective October 17, 2005
NEWS 7 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download
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visualization tools
NEWS 8 OCT 27 Free KWIC format extended in full-text databases
NEWS 9 OCT 27 DIOGENES content streamlined
NEWS 10 OCT 27 EPFULL enhanced with additional content
NEWS 11 NOV 14 CA/CAPLUS - Expanded coverage of German academic research
NEWS 12 NOV 30 REGISTRY/ZREGISTRY on STN(R) enhanced with experimental
spectral property data

NEWS EXPRESS NOVEMBER 18 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005.
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
<http://download.cas.org/express/v8.0-Discover/>

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FILE LAST UPDATED: 30 Nov 2005 (20051130/ED)

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=> fusion protein

249224 FUSION

9434 FUSIONS

254283 FUSION

(FUSION OR FUSIONS)

1810847 PROTEIN

1263057 PROTEINS

2105815 PROTEIN

(PROTEIN OR PROTEINS)

L1 44724 FUSION PROTEIN

(FUSION(W) PROTEIN)

=> hcv

9939 HCV

19 HCVS

L2 9943 HCV

(HCV OR HCVS)

=>

=> L1 and L2

L3 327 L1 AND L2

=> core and L3

293056 CORE

63330 CORES

324149 CORE

(CORE OR CORES)

L4 115 CORE AND L3

=> NS3 and L4

2213 NS3

L5 44 NS3 AND L4

=> NS5 and L5

882 NS5

L6 19 NS5 AND L5

=> D L6 IBIB ABS 1-19

L6 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:984887 CAPLUS

DOCUMENT NUMBER: 143:384632

TITLE: Design of novel conformational and genotype-specific antigens for improving sensitivity of immunoassays for hepatitis C virus-specific antibodies

AUTHOR(S): Lin, Sansan; Arcangel, Phillip; Medina-Selby, Angelica; Coit, Doris; Ng, Philip; Nguyen, Steve; McCain, Colin; Gyenes, Alex; Hu, Celine; Tandeske, Laura; Phelps, Bruce; Chien, David

CORPORATE SOURCE: Chiron Corporation, Emeryville, CA, 94608, USA

SOURCE: Journal of Clinical Microbiology (2005), 43(8),

3917-3924

CODEN: JCMIDW; ISSN: 0095-1137

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The current com. licensed enzyme-linked immunosorbent assays (ELISAs) for hepatitis C virus (HCV) mainly use recombinant proteins containing linear epitopes. There is evidence, however, that conformational epitopes of HCV are more immunoreactive. Thus, we have designed an HCV antibody assay that employs a conformational protein, NS3NS4a PI (with functional protease and helicase activities), and a linear fusion protein, multiple-epitope fusion antigen 7.1 (MEFA 7.1) or MEFA 7.2. We have shown that NS3NS4a PI detects early-seroconversion conformation-sensitive antibodies better than c33c antigen. The correct conformation of NS3NS4a PI also cross-reacts with different genotype samples better than the c33c antigen. MEFA 7.1 and MEFA 7.2 incorporate all the major immunodominant and genotype-specific epitopes of HCV core, E1, E2 hypervariable region 1 (HVR1), E2 HVR1-plus-HVR2 consensus, NS3, NS4, and NS5. Since MEFA 7.1 is degraded by the active NS3NS4a PI protease, we designed a second MEFA 7.2 construct in which the six protease cleavage sites found in MEFA 7.1 were eliminated by amino acid mutation. We demonstrate here that MEFA 7.2 remains intact in the presence of NS3NS4a PI and preserves the epitopes present in MEFA 7.1. Compared to currently licensed assays, an ELISA incorporating a combination of the two antigens NS3NS4a PI and MEFA 7.1 or 7.2 demonstrates better serotype sensitivity and detects seroconversion earlier in many com. available panels. We believe that an assay using NS3NS4a PI and MEFA 7.1 or 7.2 may have the potential to replace current HCV immunoassays for better sensitivity.

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:324271 CAPLUS

DOCUMENT NUMBER: 142:409691

TITLE: Vaccines comprising optimized multi-epitope nucleic acids or polypeptides to increase immunogenicity against AIDS, hepatitis B, cancer, etc.

INVENTOR(S): Sette, Alessandro; Chesnut, Robert W.; Newman, Mark J.; Livingston, Brian D.

PATENT ASSIGNEE(S): Epimmune Inc., USA

SOURCE: PCT Int. Appl., 261 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005033265	A2	20050414	WO 2004-US12732	20040426
WO 2005033265	C2	20050602		
WO 2005033265	A3	20050909		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-465229P P 20030425

AB The invention relates to multi-epitope nucleic acid and peptide vaccines and methods of designing such vaccines to provide increased immunogenicity against e.g. infection by HBV, HCV, HIV and CMV, as well as

prostate cancer, renal carcinoma, cervical carcinoma, lymphoma, condyloma acuminatum and AIDS. For example, a multi-epitope construct comprises nucleic acids encoding cytotoxic T lymphocyte epitopes of pol, env and **core** proteins of hepatitis B virus.

L6 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:905910 CAPLUS
DOCUMENT NUMBER: 141:378844
TITLE: Inducing a T cell response with recombinant antigen-expressing pestivirus replicons or recombinant pestivirus replicon-transfected dendritic cells, and therapeutic uses
INVENTOR(S): Rehermann, Barbara; Racanelli, Vito; Behrens, Sven-Erik; Tautz, Norbert
PATENT ASSIGNEE(S): The Government of the United States of America as Represented by the Secretary of Health and Human Services, USA; Justus-Liebig-Universitaet Giessen
SOURCE: PCT Int. Appl., 143 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004092386	A2	20041028	WO 2004-US11018	20040410
WO 2004092386	A3	20050512		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-462165P P 20030411
US 2003-463097P P 20030414

AB The present disclosure relates to compds. and methods of generating T cell-mediated immunity, particularly T cell-mediated immunity to Hepatitis C Virus (**HCV**), Respiratory Syncytial Virus (RSV), Human Immunodeficiency Virus (HIV), Mycobacterium tuberculosis, Plasmodium falciparum, and tumors. The method includes (a) administering to the subject an amount of an antigen presenting cell (such as dendritic cell) sufficient to induce the response in the subject, wherein the antigen presenting cell expresses the recombinant antigen from a pestivirus replicon or (b) directly administering the recombinant antigen expressing replicon in form of RNA or DNA.

L6 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:583933 CAPLUS
DOCUMENT NUMBER: 141:255157
TITLE: Cloning and expression of a biotinylated multiple-epitope **HCV** fusion antigen gene
AUTHOR(S): Li, Bao-Chang; Sun, Ping; Yang, Shu-Hua; Wang, Quan-Li
CORPORATE SOURCE: Institute of Blood Transfusion, Academy of Military Medical Sciences, Beijing, 100850, Peop. Rep. China
SOURCE: Zhongguo Shiyen Xueyexue Zazhi (2004), 12(3), 359-362
CODEN: ZSXZAF; ISSN: 1009-2137
PUBLISHER: Zhongguo Shiyen Xueyexue Zazhishe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB The aim was to develop a single multiple-epitope fusion antigen which incorporates all of the major immunodominant epitopes from the six functional regions of the **HCV** genome. A nucleic acid sequence consisting of viral **core**, E1, E2, **NS3**, NS4, and

NS5 regions was constructed and inserted into the Promega Pinpoint Xa-1 T vector for inducing expression. The protein was expressed in JM109 (DE3) as a **fusion protein** with a 13 kD biotinylated tag to be used for detection and affinity purification. Immunogenicity and biotinylated tag of the **fusion protein** were detected by Western blot anal. with pos. anti-**HCV** serum and streptavidin alkaline phosphatase. After purified by Promega SoftLink Soft Release Avidin Resin, the protein was pre-coated on microwell and detected with anti-**core**, anti-**NS3**, anti-**NS4** and anti-**NS5** pos. sera by EIA, resp. The results indicated that the recombinant soluble protein was expressed and labeled with biotin successfully, it reacted with anti-**HCV** pos. serum, and exposed all of the major immunogenic epitopes chosen. In conclusion, this recombinant antigen may be used to design an double antigen sandwich anti-**HCV** immunoassay.

L6 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:392569 CAPLUS

DOCUMENT NUMBER: 140:390291

TITLE: Activation of **HCV**-specific T cells using **fusion protein** vaccines comprising **HCV NS3**, NS4, NS5a, and NS5b polypeptides

INVENTOR(S): Houghton, Michael; Coates, Steve; Selby, Mark; Paliard, Xavier

PATENT ASSIGNEE(S): Chiron Corporation, USA

SOURCE: PCT Int. Appl., 136 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004039950	A2	20040513	WO 2003-US33610	20031024
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2505611	AA	20040513	CA 2003-2505611	20031024
EP 1576125	A2	20050921	EP 2003-781368	20031024
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRIORITY APPLN. INFO.:			US 2002-281341	A 20021025
			WO 2003-US33610	W 20031024

AB The invention provides a method of activating hepatitis C virus (**HCV**)-specific T cells, including CD4+ and CD8+ T cells. **HCV**-specific T cells are activated using **fusion protein** vaccines comprising **HCV NS3**, NS4, NS5a, and NS5b polypeptides, polynucleotides encoding such **fusion proteins**, or polypeptide or polynucleotide compns. containing the individual components of these fusions. The method can be used in model systems to develop **HCV**-specific immunogenic compns., as well as to immunize a mammal against **HCV**.

L6 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:162773 CAPLUS

DOCUMENT NUMBER: 140:210733

TITLE: Method and composition for treating and preventing hepatitis C infection

INVENTOR(S): Morham, Scott; Zavitz, Kenton; Hobden, Adrian

PATENT ASSIGNEE(S): Myriad Genetics, Inc., USA

SOURCE: . PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004016738	A2	20040226	WO 2003-US22956	20030721
WO 2004016738	A3	20040617		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2002-397267P P 20020719

AB The present invention provides methods for preventing and treating hepatitis C virus (HCV) infection and symptoms thereof by introducing cells displaying a HCV altered budding phenotype into a patient, or by administering to a patient nucleic acids, polypeptides and small organic compds. to cause the formation of cells displaying a HCV altered budding phenotype in the body of the patient. In particular, the invention provides compns. and methods that affect the ability of HCV, or a variant thereof, to utilize the host's cellular machinery for viral budding and egress. The invention relates to the discovery that interfering with the normal ability of viruses to utilize the host cells vesicular trafficking, recycling, and vacuolar sorting machinery for viral propagation can reduce the infectivity of the virus. Accordingly, the invention provides HCV treatment methods and compns. based on the modulation of viral budding. Modulation of the normal HCV budding mechanism can also enhance the host's immune response against the virus. The invention therefore provides compns. and methods for enhancing an immune response against HCV. The invention further provides a method of identifying compds. that modulate the activity of a viral protein host cell protein protein-protein interaction that is involved in a viral egress and/or budding pathway.

L6 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:41605 CAPLUS
DOCUMENT NUMBER: 140:110111
TITLE: HCV fusion proteins with modified NS3 domains for inducing cellular immune response against HCV infection
INVENTOR(S): Houghton, Michael
PATENT ASSIGNEE(S): Chiron Corporation, USA
SOURCE: PCT Int. Appl., 86 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004005473	A2	20040115	WO 2003-US20996	20030702
WO 2004005473	A3	20040401		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,

KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 CA 2491508 AA 20040115 CA 2003-2491508 20030702
 EP 1539809 A2 20050615 EP 2003-763172 20030702
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 JP 2005532064 T2 20051027 JP 2004-519849 20030702
 PRIORITY APPLN. INFO.: US 2002-393694P P 20020702
 US 2002-394510P P 20020708
 WO 2003-US20996 W 20030702

AB The invention provides **HCV fusion proteins**
 that include a mutated **NS3** protease domain, fused to at least
 one other **HCV** epitope derived from another region of the
HCV polyprotein. The fusions can be used in methods of
 stimulating a cellular immune response to **HCV**, such as
 activating hepatitis C virus (**HCV**)-specific T cells, including
 CD4+ and CD8+ T cells. The method can be used in model systems to develop
HCV-specific immunogenic compns., as well as to immunize a mammal
 against **HCV**.

L6 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:59621 CAPLUS
 DOCUMENT NUMBER: 138:84465
 TITLE: Construction of E. coli heat-labile enterotoxin
 expression vector pGEM-LTB and uses as vaccine
 INVENTOR(S): Cheng, Fang; Xiao, Yunning; Wang, Yanrong
 PATENT ASSIGNEE(S): Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1340625	A	20020320	CN 2000-122857	20000830
PRIORITY APPLN. INFO.:			CN 2000-122857	20000830

AB The present invention provides the recombinant expression vector pGEM-LTB
 containing the full-length nucleotide sequence of plasmid pGEM and the
 nucleotide sequence of humanized thermolabile enterotoxin beta (LTB) of E.
 coli. The fusion expression vector pGEM-LTB is constructed and used to
 express one or more of exogenous genes or express the small mol.
 polypeptide for the preparation of the medical composition or vaccine.

L6 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:587648 CAPLUS
 DOCUMENT NUMBER: 137:139355
 TITLE: Hepatitis C virus multiple copy epitope fusion
 antigens for diagnosis and treatment of **HCV**
 infection
 INVENTOR(S): Valenzuela, Pablo D. T.; Chien, David Ying
 PATENT ASSIGNEE(S): Chiron Corporation, USA
 SOURCE: U.S., 24 pp., Cont.-in-part of U.S. Ser. No. 653,226.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6428792	B1	20020806	US 1997-859524	19970520
US 6514731	B1	20030204	US 1996-653226	19960524
CA 2250723	AA	19971127	CA 1997-2250723	19970523
WO 9744469	A2	19971127	WO 1997-US8950	19970523
WO 9744469	A3	19971231		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,

DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
 EP 935662 A2 19990818 EP 1997-927767 19970523
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
 NZ 333431 A 20000526 NZ 1997-333431 19970523
 JP 2001500723 T2 20010123 JP 1997-542848 19970523
 US 2003044774 A1 20030306 US 2002-174652 20020617
 PRIORITY APPLN. INFO.: US 1996-653226 A2 19960524
 US 1997-859524 A 19970520
 WO 1997-US8950 W 19970523

AB Human hepatitis C virus (HCV) has been identified as the etiol. agent of non-A, non-B hepatitis (NANBH). HCV viruses display considerable genotypic and phenotypic heterogeneity. Thus, there is considerable need in the art for more sensitive reagents that facilitate the detection of HCV variants. The genome of hepatitis C virus (HCV) consists of seven functional regions: the core, E1, E2/NS1, NS2, NS3, NS4, and NS5 regions. An attempt was made to improve the sensitivity of anti-HCV assays by developing multiple copy epitope fusion antigens (MEFAs) which incorporate the major immunodominant epitopes from the functional regions of the HCV genome. These MEFAs are encompassed by the following generic structural formula: (A)x-(B)y-(C)z. This formula represents a linear amino acid sequence comprising multiple copies of one HCV epitope (A) linked to multiple copies of another HCV epitope (B) which in turn is linked to multiple copies of yet another HCV epitope (C). Expression vectors carrying nucleic acid sequences comprising MEFA antigens carrying multiple copies of epitopes derived from the viral core, E1, E2, NS3, NS4, and NS5 regions were prepared. The resultant MEFA antigens were expressed, purified, and employed in suitable immunoassays for the detection of HCV-specific antisera. These antigens provide excellent sensitivity and specificity for the detection of HCV.

REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:332210 CAPLUS
 DOCUMENT NUMBER: 136:339486
 TITLE: Identification of HLA-DR11/12-restricted epitopes of hepatitis C virus
 INVENTOR(S): Godkin, Andrew James; Thomas, Howard
 PATENT ASSIGNEE(S): Imperial College Innovations Limited, UK
 SOURCE: PCT Int. Appl., 72 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002034770	A1	20020502	WO 2001-GB4636	20011018
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002010683	A5	20020506	AU 2002-10683	20011018
PRIORITY APPLN. INFO.:			GB 2000-26094	A 20001025

AB The authors disclose the use of a computer program to predict HLA-DR11-restricted peptide epitopes derived from the hepatitis C virus (HCV) polyprotein. The authors identify four immunodominant epitopes from three HCV proteins for CD4+ T-cells.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:142545 CAPLUS
DOCUMENT NUMBER: 136:198914
TITLE: Vaccines containing ribavirin as adjuvant
INVENTOR(S): Sallberg, Matti; Hultgren, Catharina
PATENT ASSIGNEE(S): Tripep AB, Swed.
SOURCE: PCT Int. Appl., 120 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002013855	A2	20020221	WO 2001-IB1808	20010815
WO 2002013855	A3	20030109		
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2419418	AA	20020221	CA 2001-2419418	20010815
AU 2001092151	A5	20020225	AU 2001-92151	20010815
EP 1311289	A2	20030521	EP 2001-972379	20010815
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004506018	T2	20040226	JP 2002-518994	20010815
PRIORITY APPLN. INFO.:			US 2000-225767P	P 20000817
			US 2000-229175P	P 20000829
			US 2000-705547	A 20001103
			WO 2001-IB1808	W 20010815

AB Compns. and methods for enhancing the effect of vaccines in animals, such as domestic, sport, or pet species, and humans are disclosed. More particularly, vaccine compns. comprising ribavirin and an antigen, preferably an antigen that has an epitope present in hepatitis A virus (HAV), hepatitis B virus (HBV), and hepatitis C virus (HCV) are disclosed for use in treating and preventing disease, preferably HAV, HBV and HCV infection.

L6 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:924100 CAPLUS
DOCUMENT NUMBER: 136:52715
TITLE: Immunoassays for anti-HCV antibodies
INVENTOR(S): Chien, David Y.; Arcangel, Phillip; Tandeske, Laura; George-Nasciemento, Carlos; Coit, Doris; Medina-Selby, Angelica
PATENT ASSIGNEE(S): Chiron Corporation, USA
SOURCE: PCT Int. Appl., 92 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001096870	A2	20011220	WO 2001-US19156	20010614
WO 2001096870	A3	20030731		
W: AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2413003	AA	20011220	CA 2001-2413003	20010614
US 2002146685	A1	20021010	US 2001-881654	20010614
US 6632601	B2	20031014		
US 2002192639	A1	20021219	US 2001-881239	20010614
US 6630298	B2	20031007		
EP 1350105	A2	20031008	EP 2001-952156	20010614
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
BR 2001011682	A	20040106	BR 2001-11682	20010614
JP 2004510133	T2	20040402	JP 2002-510948	20010614
US 2004063092	A1	20040401	US 2003-637323	20030808
US 6797809	B2	20040928		
US 2004096822	A1	20040520	US 2003-643853	20030819
US 2004265801	A1	20041230	US 2004-899715	20040726

PRIORITY APPLN. INFO.:

US 2000-212082P	P	20000615
US 2001-280811P	P	20010402
US 2001-280867P	P	20010402
US 2001-881239	A3	20010614
US 2001-881654	A3	20010614
WO 2001-US19156	W	20010614
US 2003-637323	A1	20030808

AB **HCV** immunoassays comprising an **NS3/4a** conformational epitope and a multiple epitope fusion antigen are provided, as well as immunoassay solid supports for use with the immunoassays.

L6 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:670798 CAPLUS

DOCUMENT NUMBER: 136:257932

TITLE: Development and characterization of recombinant hepatitis delta virus-like particles

AUTHOR(S): Ward, Scott Matthew; Macnaughton, Thomas Bernard; Gowans, Eric James

CORPORATE SOURCE: Clinical Medical Virology Centre, The University of Queensland, St. Lucia, 4067, Australia

SOURCE: Virus Genes (2001), 23(1), 97-104

CODEN: VIGEET; ISSN: 0920-8569

PUBLISHER: Kluwer Academic Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Injection of particulate hepatitis B virus surface antigen (HBsAg) in mice leads to the induction of a HBsAg-specific class-I-restricted cytotoxic T lymphocyte (CTL) response. It is proposed that any protein internal to HBsAg will also be able to elicit a specific CTL response. In this study, several carboxy-terminal truncations of hepatitis C virus (**HCV**) **core** protein were fused to varying lengths of amino-terminal truncated large hepatitis delta antigen (L-HDAg). These constructs were analyzed for their ability to be expressed and the particles secreted in the presence of HBsAg after transfection into HuH-7 cells. The secretion efficiency of the various **HCV core**-HDAg chimeric proteins was generally poor. Constructs containing full length HDAg appeared to be more stable than truncated versions and the length of the inserted protein was restricted to around 40 amino acids. Thus, the use of L-HDAg as a chimera to package foreign proteins is limited. Consequently, a polyepitope (polytope) containing a B-cell epitope from human papillomavirus (HPV 16) and multiple T-cell epitopes from the **HCV** polyprotein was used to create the construct, L-HDAg-polyB. This chimeric protein was shown to be reliant on the co-expression of HBsAg for secretion into the cell culture fluid and was secreted more efficiently than the previous

HCV core-HDAg constructs. These L-HDAg-polyB virus-like particles (VLPs) had a buoyant d. of .apprx.1.2 g/cm³ in cesium chloride and .apprx.1.15 g/cm³ in sucrose. The VLPs were also immunopptd. using an anti-HBs but not an anti-HD antibody. Thus, these recombinant VLPs have similar biophys. properties to L-HDAg VLPs.

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:835361 CAPLUS

DOCUMENT NUMBER: 134:16523

TITLE: Diagnosis of, and vaccination against, a positive stranded RNA virus using an isolated, unprocessed polypeptide encoded by a substantially complete genome of such virus

INVENTOR(S): Liao, Jaw-Ching; Wang, Cheng-Nan

PATENT ASSIGNEE(S): Bionova Corporation, USA

SOURCE: U.S., 35 pp., Cont.-in-part of U.S. Ser. No. 962,989, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6153378	A	20001128	US 1995-454928	19950531
US 5625034	A	19970429	US 1993-143579	19931026
CA 2222968	AA	19961205	CA 1996-2222968	19960531
WO 9638474	A2	19961205	WO 1996-US8112	19960531
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
ZA 9604480	A	19961212	ZA 1996-4480	19960531
AU 9659575	A1	19961218	AU 1996-59575	19960531
EP 828756	A2	19980318	EP 1996-916828	19960531
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
CN 1189838	A	19980805	CN 1996-195184	19960531
JP 11506328	T2	19990608	JP 1996-536677	19960531
BR 9608676	A	19991207	BR 1996-8676	19960531
PRIORITY APPLN. INFO.:				
				US 1992-962989 B2 19921016
				US 1992-963483 B3 19921016
				US 1993-143579 A2 19931026
				US 1995-454928 A 19950531
				WO 1996-US8112 W 19960531

AB The unprocessed polyprotein initially translated from the genome of a pos.-stranded RNA virus contains epitopic configurations that are not retained in the processed proteins. The structural protein region, in particular, loses an epitopic configuration upon processing at the cleavage site between the genomic region encoding the **core** protein and the genomic region encoding the protein adjacent the **core** protein, such as the envelope protein in **HCV**.
Compns., methods and assays relating to the diagnosis and detection of the presence of the pos.-stranded RNA virus, or antibodies to the pos.-stranded RNA virus, in a sample. Compns. and methods for the induction of immune responses in, and vaccination of, an animal. Combination of the unprocessed **core** region with a non-structural protein (such as an **NS5** or an unprocessed **NS3-NS4** fusion from **HCV**).

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:298250 CAPLUS

DOCUMENT NUMBER: 131:127333
 TITLE: Use of a novel hepatitis C virus (HCV) major-epitope chimeric polypeptide for diagnosis of HCV infection
 AUTHOR(S): Chien, David Y.; Arcangel, Phillip; Medina-Selby, Angelica; Coit, Doris; Baumeister, Mark; Nguyen, Steve; George-Nascimento, Carlos; Gyenes, Alexander; Kuo, George; Valenzuela, Pablo
 CORPORATE SOURCE: Chiron Corporation, Emeryville, CA, 94507, USA
 SOURCE: Journal of Clinical Microbiology (1999), 37(5), 1393-1397
 CODEN: JCMIDW; ISSN: 0095-1137
 PUBLISHER: American Society for Microbiology
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The genome of hepatitis C virus (HCV) consists of seven functional regions: the **core**, E1, E2/NS1, NS2, **NS3**, NS4, and **NS5** regions. The U.S. Food and Drug Administration-licensed 2.0G immunoassay for the detection of anti-HCV uses proteins from the **core**, **NS3**, and NS4 regions. The 3.0G ELISA includes the protein from the **NS5** region. The necessity of detecting antibodies to viral envelope proteins (E1 and E2) and to different genotype samples has been demonstrated previously. In this study we have attempted to improve the sensitivity of the anti-HCV assay by developing a single multiple-epitope fusion antigen (MEFA; MEFA-6) which incorporates all of the major immunodominant epitopes from the seven functional regions of the HCV genome. A nucleic acid sequence consisting of proteins from the viral **core**, E1, E2, **NS3**, NS4, and **NS5** regions and different subtype-specific regions of the NS4 region was constructed, cloned, and expressed in yeast. The epitopes present on this antigen can be detected by epitope-specific monoclonal and polyclonal antibodies. In a competition assay, the MEFA-6 protein competed with 83 to 96% of genotype-specific antibodies from HCV genotype-specific peptides. This recombinant antigen was subsequently used to design an anti-HCV chemiluminescent immunoassay. We designed our assay using a monoclonal anti-human IgG antibody bound to the solid phase. Because MEFA-6 is fused with human superoxide dismutase (h-SOD), we used an anti-human superoxide dismutase, di-Me acridinium ester-labeled monoclonal antibody for detection. Our results indicate that MEFA-6 exposes all of the major immunogenic epitopes. Its excellent sensitivity and specificity for the detection of clin. seroconversion are demonstrated by this assay.

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1997:286360 CAPLUS
 DOCUMENT NUMBER: 126:263158
 TITLE: Spliced peptides for the diagnosis and detection of hepatitis C virus (HCV) infection
 INVENTOR(S): Hosein, Barbara; Wang, Chang Yi
 PATENT ASSIGNEE(S): United Biomedical, Inc., USA
 SOURCE: Ger. Offen., 71 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19549390	A1	19970320	DE 1995-19549390	19951027
DE 19549390	C2	19971023		
US 5736321	A	19980407	US 1995-530550	19950919
DE 19540105	C1	19970220	DE 1995-19540105	19951027
PRIORITY APPLN. INFO.:			US 1995-530550	A 19950919
			DE 1995-19540105	A3 19951027
			US 1994-333573	B2 19941101

AB .Novel peptides are disclosed which are specific for the diagnosis of hepatitis C virus (HCV) infection, as are compns. containing mixts. of these peptides. The peptides have at least one antigenic region which is effective in the detection of HCV-associated antibodies using an immunoassay. A novel spliced peptide is disclosed which can be used to block the non-specific reactivity of particular NS-3 conformational epitopes. The fused peptide composition includes (1) a linear fused peptide in which the C-terminus is a -COOH or -CONH2 group, (2) one or more of several disclosed peptide sequences, and (3) an amino acid sequence corresponding to the NS-3 region of HCV. Thus, different mixts. of peptides were used detect antibodies in a panel of human sera. Mixts. A and B and D and E showed comparable sensitivity on the whole, but with samples containing **core** protein 2 and 3, the D and E mixts. showed higher sensitivity than the A and B mixts.

L6 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:54036 CAPLUS
DOCUMENT NUMBER: 126:73782
TITLE: Unprocessed **core**-envelope fusion protein and nonstructural protein for the diagnosis of and vaccination against hepatitis C virus
INVENTOR(S): Liao, Jaw-Ching; Wang, Cheng-Nan
PATENT ASSIGNEE(S): Bionova Corporation, USA; Liao, Jaw-Ching; Wang, Cheng-Nan
SOURCE: PCT Int. Appl., 73 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9637606	A1	19961128	WO 1996-US7378	19960522
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
ZA 9604094	A	19961203	ZA 1996-4094	19960522
AU 9659243	A1	19961211	AU 1996-59243	19960522
PRIORITY APPLN. INFO.:			US 1995-447276	A 19950522
			WO 1996-US7378	W 19960522

AB The unprocessed **core** protein region initially translated from the genome of hepatitis C virus (HCV) contains epitopic configurations that are not retained in the processed proteins. In particular, the **core** protein loses an epitopic configuration upon processing at the cleavage site between the genomic region (e.g., gene) encoding the **core** protein and the genomic region encoding the adjacent envelope region. The unprocessed epitopic configuration of the **core** region provides an improved ability to detect the presence of HCV, or antibodies to HCV, in a sample, including an unpurified sample or a sample of very small volume (which can be particularly helpful when testing a sample from an infant or other person having very little blood (or other suitable material) available for testing). Combining the unprocessed **core** region with a nonstructural protein (such as an NS5 or an NS3-NS4 fusion) results in a synergistic effect that greatly enhances the already improved sensitivity and specificity provided by the unprocessed **core** region. The unprocessed epitopic configuration of the **core** region also provides an improved ability to induce an immune response upon administration of the **core** region into an animal. Recombinant methods are described for the preparation of a cloned DNA mol. (EN-80-2) derived from the HCV **core** and envelope regions and for a clone (EN-80-1) encoding the NS5 nonstructural protein.

L6 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:232253 CAPLUS
 DOCUMENT NUMBER: 118:232253
 TITLE: Hepatitis C assay utilizing recombinant antigens from
 NS5 region
 INVENTOR(S): Desai, Suresh M.; Dailey, Stephen H.; Devare, Sushil
 G.
 PATENT ASSIGNEE(S): Abbott Laboratories, USA
 SOURCE: PCT Int. Appl., 164 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9304089	A1	19930304	WO 1992-US6964	19920821
W: AU, CA, JP, KR				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
AU 9224927	A1	19930316	AU 1992-24927	19920821
EP 600000	A1	19940608	EP 1992-918623	19920821
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
JP 06510289	T2	19941117	JP 1993-504550	19920821
US 6172189	B1	20010109	US 1997-867611	19970602
US 6593083	B1	20030715	US 2000-690359	20001017
PRIORITY APPLN. INFO.:				
			US 1991-748565	A 19910821
			US 1990-572822	YY 19900824
			US 1990-614069	B2 19901107
			US 1991-748561	B2 19910821
			US 1991-748566	B2 19910821
			WO 1992-US6964	A 19920821
			US 1992-989843	B1 19921119
			US 1994-179896	B1 19940110
			US 1996-646757	B1 19960501
			US 1997-867611	A3 19970602

AB A recombinant antigen is disclosed which represents the distinct
 NS5 antigenic region of the hepatitis C virus (HCV)
 genome and which can be used in the detection of antibodies and antigens
 in body fluids from individuals exposed to HCV. Also disclosed
 is an assay for detecting the presence of an antibody to an HCV
 antigen in a sample by contacting the sample with the recombinant antigen.
 Preferred assay formats include a screening assay, a confirmatory assay, a
 competition or neutralization assay, and an immunodot assay. Specifically
 claimed is recombinant **fusion protein HCV**
 CKS-NS5 EF (amino acid sequence included), which consists of 239
 amino acids of CKS (Escherichia coli enzyme CMP-KDO synthetase), 9 amino
 acids contributed by linker DNA sequences, and 550 amino acids from the
 NS5 region of the HCV genome. Other recombinant
 antigens (**fusion proteins**) for HCV detection
 are also described. Using a group of 233 specimens representing 23
 hemodialysis patients having clin. diagnosed non-A non-B hepatitis, data
 indicated that detection of anti-HCV by a screening assay using
 pHCV-31 and pHCV-34 products may occur at an equivalent bleed date or as many
 as 9 mo earlier when compared with a c100-3 screening assay.

L6 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1992:529836 CAPLUS
 DOCUMENT NUMBER: 117:129836
 TITLE: Hepatitis C antibody assay utilizing recombinant
 antigens
 INVENTOR(S): Devare, Sushil G.; Desai, Suresh M.; Casey, James M.;
 Dawson, George J.; Lesniewski, Richard R.; Dailey,
 Stephen H.; Gutierrez, Robin A.; Stewart, James
 Lawrence
 PATENT ASSIGNEE(S): Abbott Laboratories, USA
 SOURCE: Eur. Pat. Appl., 115 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACG. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 472207	A2	19920226	EP 1991-114161	19910823
EP 472207	A3	19920826		
EP 472207	B1	19991013		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
CA 2049679	AA	19920225	CA 1991-2049679	19910822
CA 2049679	C	19920225		
AU 9182774	A1	19920507	AU 1991-82774	19910823
AU 655592	B2	19950105		
AT 185605	E	19991015	AT 1991-114161	19910823
ES 2139571	T3	20000216	ES 1991-114161	19910823
JP 04281792	A2	19921007	JP 1991-240587	19910826
JP 3354579	B2	20021209		
US 6172189	B1	20010109	US 1997-867611	19970602
US 6593083	B1	20030715	US 2000-690359	20001017

PRIORITY APPLN. INFO.:

US 1990-572822	A	19900824
US 1990-614069	A	19901107
US 1991-748561	B2	19910821
US 1991-748565	A2	19910821
US 1991-748566	B2	19910821
US 1992-989843	B1	19921119
US 1994-179896	B1	19940110
US 1996-646757	B1	19960501
US 1997-867611	A3	19970602

AB Immunoassays for detecting antibodies to antigens of hepatitis C virus (**HCV**) in a fluid sample are disclosed which use recombinant antigens. The antigens are fusion products with CMP-KDO synthetase (CKS) and are produced in *Escherichia coli*. The cloning vector pJO200 was used to fuse DNA encoding the recombinant proteins to DNA for CKS. Plasmid pHCV-34, encoding CKS-**HCV core** antigen (amino acids 1-150) fusion product, was prepared and expressed in *E. coli*. A screening immunoassay using this recombinant CKS-**core** fusion product and **fusion protein** CKS-33-BCD (prepared from plasmid pHCV-31; containing amino acid sequences from **HCV NS3** and NS4 proteins) was sufficiently sensitive to detect seroconversion during the acute phase of **HCV** infection in chimpanzees. No preinoculation specimens were reactive.